

CITY OF SAN DIEGO WATER DEPARTMENT

APPROVED MATERIALS LIST

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Forward for 2002 Revisions

Suggested changes in the approved materials are still requested and will be reviewed. In order to keep the listing updated, it is necessary that anyone with pertinent information keep the committee updated.

Materials other than shown on this list may be used when approval has been obtained for their use.

Materials called out on subdivision plans may require specifications to be included with the subdivision plans. This will be the case of any material not covered by the referenced specifications* for the subdivision.

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Revised 11/21/2002**

CITY OF SAN DIEGO WATER DEPARTMENT
APPROVED MATERIALS LIST
WATER DISTRIBUTION

| SUBJECT | SPEC. REF. | MANUFACTURER (Series/Model No.) | ADDITIONAL REQUIREMENTS |
|---|---------------|--|--------------------------------------|
| A. <u>Bronze Water Services</u> <u>Fittings for Iron Pipe,</u> <u>Plastic, and Copper Tubing</u> (1) Corporation Stop, Curb Stop, Property Valve, Coupling, Compression Fittings, or Flared Copper Type only. (2) Adaptors, Bends,. Compression Fittings, or Flared Copper Type only. (3) Service Saddle (double-bronze straps and nuts for pipe other than PVC). (4) Service Saddle (full support for PVC C-900 pipe, 4" through 12", unless otherwise noted). All SStl. Saddles Bronze Saddle w/SStl.Strap | *207-26.1 | (Refer to section G, page 7 for model numbers). The James Jones Company Ford McDonald Mueller The James Jones Company (J-979) Ford (202B) Mueller (H-16000) Romac Industries (202B) Smith-Blair (373) Romac Industries (306) Smith-Blair(323) Romac Industries The James Jones Company (J-969) APAC (113) Ford (202B) | Minimum 150 psi working pressure. |

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|---|---------------|---|----------------------------|
| B. <u>Water Services</u> (1) Polyvinyl Chloride Pipe (PVC) Schedules 40 & 80 - 2" diameter With Schedules 40 & 80 socket solvent weld type fittings (2) Copper Tube, Type "K" (soft) 1" & 2" diameters | *207-26.1 | J-M Certainteed Carlon Lasco Spears | |
| | *207-26.1 | Mueller Brass Cerro Copper Products Cambridge-Lee Industries, Inc. | |
| | | | |

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|---|-------------------------|---|----------------------------|
| C. <u>Valves</u> | | | |
| (1) Gate Valves 3" thru 48" diameter (a) All internal parts to be bronze (b) 12" diameter and larger to have by-passes 16" diameter and larger to be mounted horizontally with by-passes and enclosed gear cases 3" thru 12" diameter - 200 psi working pressure 16" thru 48" diameter - 150 psi working pressure | *207-26.3 AWWA C-500 | Mueller (A2380-9206) Kennedy Valve Company/ Clow American Flow Control M & H (Dresser) K-Flow | EPDM rubbers |
| (2) Resilient-Wedge Gate Valves 2" thru 12" diameter (NRS) | AWWA C-509 | American Flow Control American Flow Control (AFC 500) M & H / Kennedy Valve Company./ Clow American AVK (Series 25) Stockham U. S. Pipe Metroseal (250) Mueller | EPDM rubbers |

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|--|---------------------------------------|---|--|
| C. <u>Valves (cont.)</u> | | | |
| (3) Rubber-Seated Butterfly Valves 6" thru 48" diameter | *207-26.4 AWWA C-504 | Pratt K-Flow | Class 150 EPDM rubber |
| 6" thru 12" diameter | | M & H (Dresser) Mueller | EPDM rubber |
| 16" thru 48" diameter | | Kennedy Valve Company American Flow Control | EPDM rubber |
| 6" thru 12" diameter | *207-26.4.1 | Pratt K-Flow | Class 250 EPDM rubber |
| (4) Combination Air & Vacuum Valves, 1", 2", 3", & 4" diameters All internal parts to be stainless steel | | APCO (143C,145C,147C,149C) Val-Matic (201C, 202C) GA Industries, Inc. (#945) Crispin (10UL, 20UL, 30UL, 40UL) | |
| (5) Automatic Control Valves | | CLA-VAL Co. GA Industries, Inc. | Globe/Angle Pattern only |
| (6) Fire Hydrants Wet Barrel Fire Hydrants for Ordinary Water Works Service | *207-26.2 AWWA C-503 SDRSD W-10 | Clow Ranger (950, 960, 850, 860) | Hydrants with one- piece barrel only, no welded ports allowed. |
| D. <u>Meter Boxes</u> | | | |

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|--|---|--|--|
| (1) Concrete Meter Box | *207-26.1 SDW 112, 113 | Brooks Products San Diego Precast Eisel Enterprises (Nos. 6 and 37) | |
| (2) Polymer-Concrete Meter Box | | Armorcast Products CDR (1" only) | |
| <u>E. Water Distribution Pressure Pipe</u> | | | |
| (1) Polyvinyl Chloride (PVC) Pipe, Class 150 or 200 4" thru 12" diameter | *207-25 AWWA C-900 DR-25 | Any Manufacturer Meeting Specifications | Marking - Pressure Class PVC 1120 NSF Certification Pipe ends - plain /gasket bell couplings |
| (2) Ductile Iron (DI) pipe - 4" thru 54" diameter AWWA C-150 | *207-9 AWWA C-111 AWWA C-104 AWWA C-105 DR-25 | Any Manufacturer Meeting Specifications | |
| (3) Polyvinyl Chloride (PVC) Pipe, 14" thru 36" diameter | *207-25.1 AWWA C-905 DR-18 | Any Manufacturer Meeting Specifications | Pressure Rating 235 psi |

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|---|--|--|--|
| <u>F. Water Distribution</u> <u>Miscellaneous</u> | | | |
| (1) Ductile Iron Fittings and Joints For DI & PVC pipe, short body, cement lined | *207-9.2 AWWA C-110 AWWA C-111 AWWA C-153 | Any Manufacturer Meeting Specifications | Only mechanical joint fittings shall be used on PVC pipe |
| (2) Tapping Sleeve 4" thru 20" diameter | | APAC (502) Baker (428) Ford (FTSC) Mueller (H619) Smith-Blair (622) JCM Industries (412) Romac Industries (FTS420) | |
| (3) Stainless Steel Bands (Repair Clamps) | | JCM 101, 210, 211, 301) Ford (FS1, FS2) Romac Industries (SS1, SS2) Cascade (CR1. CR2. CR3) | |
| (4) Flex Couplings | | Mueller | |
| (5) Restraining Joints | | Mega Lug | To be Approved by Engineer |

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SAN DIEGO WATER DEPARTMENT
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| G. BRONZE WATER SERVICE FITTINGS | | COMPRESSION/PACKING | FLARED COPPER | MISCELLANEOUS |
|--|----------------------------------|--|--|--|
| TYPE | SIZE | MANUFACTURER'S MODEL NUMBERS FORD JONES McDONALD MUELLER | MANUFACTURER'S MODEL NUMBERS FORD JONES McDONALD MUELLER | MANUFACTURER'S MODEL NUMBERS FORD JONES MUELLER |
| CURB STOP, ANGLE, BALL IPS THREAD TO METER PVC SCH 40 TO METER (elongated holes for 12" & 2" meters) TUBING TO METER TUBING TO METER (elongated holes for 12" & 2" meters) | 2" 2" 1" 2" | --- --- --- --- BFA73-777W J-1979 4602B-44 --- BA43-444W J-1963W 4602B-22 B-24258 BF43-777W J-1975W 4604-B B-24276 | --- --- --- --- --- --- BA23-444W J-1973W 4602B B-24255 BFA23-777W J-1964W --- --- | FV13-777W J-1527F H-14286 --- --- --- --- --- --- --- --- --- |
| CORP STOP, BALL MIP TO MIP MIP TO PVC SCH 40 MIP TO TUBING MIP TO TUBING | 2" 2" 12" 2" | --- J-1943 3131-B --- FB-1102 J-1977 4704B-44 B-25025 FB-1100 J-1935 4704B-22 B-25008 FB-1100 J-1935 4704B-22 B-25028 | --- --- --- --- FB-700 J-1930 4701B B-25000 FB-700 J-1930 4704B B-25025 | FB-500 J-1943 H-9969 --- --- --- --- --- --- |
| COUPLING, ADAPTOR FIP TO IPS FIP TO PVC, IPS FIP TO TUBING MIP TO PVC, IPS MIP TO TUBING MIP TO TUBING | 1" 2" 2" 2" 1" 2" | C16-44 J-2608 4754-33 H-15454 C17-44 J-2640 4754-44 --- C14-77 J-2607 4754-22 H-15451 C87-77 J-2640 4753-44 --- C84-44 J-2605 4753-22 H-15428 C84-77 J-2605 4753-22 H-15428 | --- ,--- --- ,--- C21-77 J-1535 4754 H-15450 --- ,--- C28-44 J-1531 4753 H-15425 C28-77 J-1531 4753 H-15425 | --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- |
| COUPLING, STRAIGHT METER TAIL METER TAIL PVC TO PVC SCH 40 TUBING TO TUBING TUBING TO TUBING | 1" : 2" 1" 2" | --- --- --- --- --- --- --- --- C77-77 J-2642 4758-44 --- C44-44 J-2609 4758-22 H-15403 C44-77 J-2609 4758-22 H-15403 | --- ,--- --- ,--- --- ,--- C22-44 J-1528 4758 H-15400 C22-77 J-1528 4758 H-15400 | C-38 J-130 H-10890 C-38 J-130 H-10890 --- --- --- --- --- --- --- --- --- |
| PACKING JOINT, 90° ELBOW TUBING TO TUBING | 2" | L44-77 J-2611 4761.22 H-15526 | C22-77 J-1552 4761 H-15525 | --- --- --- |
| VALVE, METER | | | | |

| | | | | | |
|--------------|----|------------------------------------|--|-----------|-------------|
| FIP TO METER | 1" | B13-444 J-1908 w/6120 HANDLE | 6101-MHB B-24351 w/B20248 HANDLE | - --- --- | --- --- --- |
|--------------|----|------------------------------------|--|-----------|-------------|

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